



CROSS-SECTORAL CONSULTATION **ADAPTING TO GLOBAL CHANGES IN OCEANS AND FISHERIES**

The oceans are changing at an unprecedented rate because of human activities, particularly through climate change, fishing, pollution, and habitat destruction. There is a growing concern among marine scientists, policy makers and stakeholders over the loss of biodiversity and ecosystem services, and the capacity to produce seafood. Given the scale of these environmental changes, it is imperative that we understand the responses, vulnerabilities and impacts of this changing ocean to develop strategies to adapt. We aim to provide a concise overview of the latest research findings about the state of the oceans and the projected future conditions under climate change, as well as the implications for biodiversity and fisheries, case studies on vulnerable regions and communities, and how market-oriented solutions and international policies can facilitate adaptation. This seminar series will bring together experts working in a diverse range of fields, from ecology and indigenous knowledge to economics and technology development, to engage in discussion on equitable and socially just strategies for adaptation to global changes.

ALL TALKS ARE AT GREEN COLLEGE IN THE COACH HOUSE AND OPEN TO THE PUBLIC WITHOUT CHARGE

IMPACTS OF CLIMATE CHANGE ON CONTAMINANTS IN FISHERIES

Elsie Sunderland, Associate Professor of Environmental Science and Engineering,
Harvard T.H. Chan School of Public Health

4:30-5 pm Meet and Greet coffee break, 5-6:30 pm seminar, Thursday, November 17, 2016

Many environmental contaminants biomagnify in marine food webs, reaching high concentrations in top predators, posing health risks to humans and wildlife. Biomagnification is highly affected by dietary preferences of different species and locations of food foraging activity. The combination of climate driven changes in ocean conditions and fish harvesting activities by humans is causing major changes in marine food webs that also affect contaminant biomagnification. Using the example of methylmercury, a potent neurotoxin found ubiquitously in most marine environments, this presentation will explain how climate, global emissions and contaminant concentrations in marine food webs are intricately linked. The presentation will also discuss the effectiveness of mitigation measures aimed at protecting human health such as emissions controls and dietary advisories for different fish species.

Those attending talks at Green College are warmly invited to come to dinner.

For information on making dinner reservations, see www.greencollege.ubc.ca/how-attend-dinner

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